

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/525,984
Source: PCT
Date Processed by STIC: 02/02/2006

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 02/02/2006
 PATENT APPLICATION: US/10/525,984 TIME: 11:39:50

Input Set : A:\VANM260.001APC SEQLIST as filed.txt
 Output Set: N:\CRF4\02022006\J525984.raw

2 <110> APPLICANT: Jonniaux, Jean-Luc
 3 Valepyn, Emmanuel
 4 Corbisier, Anne-Marie
 5 Dauvrin, Thierry
 7 <120> TITLE OF INVENTION: MYROTHECIUM SP. TRANSFORMATION AND EXPRESSION SYSTEM
 9 <130> FILE REFERENCE: VANM260.001APC
 11 <140> CURRENT APPLICATION NUMBER: US 10/525,984
 12 <141> CURRENT FILING DATE: 2005-02-25
 14 <150> PRIOR APPLICATION NUMBER: PCT/BE03/00143
 15 <151> PRIOR FILING DATE: 2003-08-29
 17 <150> PRIOR APPLICATION NUMBER: US 60/404,843
 W--> 18 <151> PRIOR FILING DATE: 2002-08-2002
 20 <160> NUMBER OF SEQ ID NOS: 37
 22 <170> SOFTWARE: PatentIn version 3.2
 24 <210> SEQ ID NO: 1
 26 <211> LENGTH: 17
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Artificial
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: LR0R primer
 33 <400> SEQUENCE: 1
 35 acccgctgaa cttaagc 17
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 17
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Artificial
 42 <220> FEATURE:
 44 <223> OTHER INFORMATION: LR6 primer
 46 <400> SEQUENCE: 2
 48 cgccagttct gcttacc 17
 50 <210> SEQ ID NO: 3
 51 <211> LENGTH: 17
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Artificial
 55 <220> FEATURE:
 57 <223> OTHER INFORMATION: LR3R primer
 59 <400> SEQUENCE: 3
 61 gtcttgaaac acggacc 17
 63 <210> SEQ ID NO: 4
 64 <211> LENGTH: 17
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Artificial
 68 <220> FEATURE:

CP9-6)

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/525,984

DATE: 02/02/2006
 TIME: 11:39:50

Input Set : A:\VANM260.001APC SEQLIST as filed.txt
 Output Set: N:\CRF4\02022006\J525984.raw

```

70 <223> OTHER INFORMATION: LR3 primer
72 <400> SEQUENCE: 4
74 ccgtgtttca agacggg                                     17
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 19
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
83 <223> OTHER INFORMATION: ITS1 primer
85 <400> SEQUENCE: 5
87 tccgtaggtg aacctgcgg                                     19
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 20
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: ITS4 primer
97 <400> SEQUENCE: 6
98 tcttccgctt attgatatgc                                   20
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 1052
102 <212> TYPE: DNA
103 <213> ORGANISM: Myrothecium
105 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <223> OTHER INFORMATION: 28s rDNA sequence of the strain MUCL39210
110 <400> SEQUENCE: 7
112 cagggattgc ctcagtaacg gcgagtgaag cggcaacagc tcaaatttga aatctggccc      60
113 cccggcccga gttgtaattt gcagaggatg cttttggcga ggtgccttcc gagttccctg      120
114 gaacgggacg ccatagaggg tgagagcccc gtctggtcgg acaccgagcc tctgtaaagc      180
115 tccttcgacg agtcgagtag tttgggaatg ctgctcaaaa tgggaggtat atgtcttcta      240
116 aagctaaata ttggccagag accgatagcg cacaagtaga gtgatcgaaa gatgaaaagc      300
117 actttgaaaa gagagttaaa cagcacgtga aattgttaaa agggaagcgt ttatgaccag      360
118 acttggcccg gttgatcatc cagcgttctc gctggtgcac tctgccggtc caggccagca      420
119 tcagttcgtc gcgggggata aagggttcgg gaatgtggct cctccgggag tgttatagcc      480
120 cgttgcgtaa taccctgcgg tggactgagg tccgcgcttc tgcaaggatg ctggcgtaat      540
121 ggtcatcaac gaccctgctt gaaacacgga ccaaggagtc gtcttcgtat gcgagtgttc      600
122 ggggtgtaaaa cccctacgcg taatgaaagt gaacgcaggt gagagcttcg gcgcatcatc      660
123 gaccgatcct gatgttctcg gatggatttg agtaagagca tacggggccg gacccgaaaag      720
124 aagggtgaact atgcctgtat aggggtgaagc cagaggaaac tctggtggag gctcgacgcg      780
125 gttctgacgt gcaaatcgat cgtcaaatat gggcatgggg gcgaaagact aatcgaaacct      840
126 tctagtagct ggtttccgcc gaagtttccc tcaggatagc agtgttgaac tcagttttat      900
127 gaggtaaagc gaatgattag ggactcgggg gcgctattta gccttcaccc attctcaaac      960
128 tttaaatatg taagaagccc ttgttactta gttgaacgtg ggcattcgaa tgtatcaaca     1020
129 ctagtggggc atttttggtg agcagaactg gc
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 1040
133 <212> TYPE: DNA
134 <213> ORGANISM: Myrothecium

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/525,984 DATE: 02/02/2006
 TIME: 11:39:50

Input Set : A:\VANM260.001APC SEQLIST as filed.txt
 Output Set: N:\CRF4\02022006\J525984.raw

```

136 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <223> OTHER INFORMATION: 28s rDNA sequence of the strain MUCL11831
141 <400> SEQUENCE: 8
143 cagggtattgc cttagtaacg gcgagtgaag cggcaacagc tcaaatttga aatctggacc      60
144 tagtcccgag ttgtaatttg cagaggatga ttttggcgcg gtgccttcca agttccctgg      120
145 gacgggacgc cggagagggt gagagcccg caggttgga caccaagcct atgtaaatct      180
146 ccttcgacga gtcgagtagt ttgggaatgc tgctctaaat gggagggtata tgtcttctaa      240
147 agctaaatac cggccagaga ccgatagcgc acaagtagag tgatcgaaag atgaaaagca      300
148 ctttgaaaag agagttaaac agcacgtgaa attgttataa ggaagcggtt tacgaccaga      360
149 cttgtgccgg ttgatcatcc agcgttctcg ctggtgcact ctgccggccc aggccagcat      420
150 cagttcgccg cgggggataa aggcgtcggg aatgtggctc ccccgggagt gttatagccc      480
151 ttccgcgaat accctgaggc ggactgaggt tcgcgcattc gcaaggatgc tggcgtaatg      540
152 gtcgtcaacg acccgtcttg aaacacggac caaggagtcg tcttcgtatg cgagtgttcg      600
153 ggtgtaaaac ccctacgcgt aatgaaagt aacgcaggtg agagcttcgg cgcacatcgc      660
154 accgatcctg atgttctcgg atggatttga gtaagagcat acggggccgg acccgaaaga      720
155 aggtgaacta tgctgtata ggggtgaagc agaggaaact ctggtggagg ctgcgagcgg      780
156 ttctgacgtg caaatcgatc gtcaaatatg ggcatggggg cgaaagacta atcgaaacct      840
157 ctagttagctg gtttcgcgg aagtttccct caggatagca gtgttgaact cagttttatg      900
158 aggtaaagcg aatgattagg gactcggggg cgctatttag ccttcatcca ttctcaaact      960
159 ttaaatatgt aagaagccct tgttgcttaa ttgaacgtgg gcattcgaat gtatcaacac     1020
160 tagtgggcca tttttggtaa                                     1040
162 <210> SEQ ID NO: 9
163 <211> LENGTH: 1012
164 <212> TYPE: DNA
165 <213> ORGANISM: Myrothecium
167 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <223> OTHER INFORMATION: 28s rDNA sequence of the strain CBS449.71
172 <400> SEQUENCE: 9
174 cagggtattgc ctcagtaacg gcgagtgaag cggcaacagc tcaaatttga aatctggccc      60
175 taggcccagag ttgtaatttg cagaggatgc ttttggcaag gtgccttccg agttccctgg      120
176 aacgggacgc catagagggt gagagcccg tctggtcggg caccgagcct ctgtaaagct      180
177 ccttcgacga gtcgagtagt ttgggaatgc tgctcaaat gggagggtata tgtcttctaa      240
178 agctaaatac cggccagaga ccgatagcgc acaagtagag tgatcgaaag atgaaaagca      300
179 ctttgaaaag agagttaaat agcacgtgaa attgttgaaa ggaagcggtt tatgaccaga      360
180 cttggcccgg ttgatcatcc agccttctcg ctggtgcact ctgccggtcc aggccagcat      420
181 cagttcgctc cgggggataa aggtttcggg aatgtagctc ctccgggagt gttatagccc      480
182 gttgcgtaat accctcgggt ggactgaggt ccgcgctctg caaggatgct ggcgtaatgg      540
183 tcatcaacga cccgtcttga aacacggacc aaggagtcgt cttcgtatgc gagtgttcgg      600
184 gtgtaaaacc cctacgcgta atgaaagtga acgcagggtg gagcttcggc gcatcatcga      660
185 ccgatccctg tgttctcggg tgattttgag taagagcata cggggccgga cccgaaagaa      720
186 ggtgaactat gcctgtatag ggtgaagcca gaggaaactc tgggtggaggc tcgcagcggg      780
187 tctgacgtgc aaatcgatcg tcaaatatgg gcattggggc gaaagactaa tcgaaccttc      840
188 tagtagctgg tttccgcca agttccctc aggatagcag tgttgaactc agttttatga      900
189 ggtaaagcga atgattaggg actcgggggc gctatttagc cttcatccat tctcaaactt      960
190 taaatatgta agaagccctt gttgcttaat tgaacgtggg cattcgaatg ta          1012
192 <210> SEQ ID NO: 10
193 <211> LENGTH: 1038

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/525,984

DATE: 02/02/2006
 TIME: 11:39:50

Input Set : A:\VANM260.001APC SEQLIST as filed.txt
 Output Set: N:\CRF4\02022006\J525984.raw

```

194 <212> TYPE: DNA
195 <213> ORGANISM: Myrothecium
197 <220> FEATURE:
199 <221> NAME/KEY: misc_feature
200 <223> OTHER INFORMATION: 28s rDNA sequence of the strain IMI140595
202 <400> SEQUENCE: 10
204 cagggattgc ctcagtaacg gcgagtgaag cggcaacagc tcaaatttga aatctggccc      60
205 taggcccagag ttgtaatttg cagaggatgc ttttggcgag gtgccttccg agttccctgg      120
206 aacgggacgc catagagggt gagagccccg tctggtcgga caccgagcct ctgtaaagct      180
207 ccttcgacga gtcgagtagt ttgggaatgc tgctcaaaat gggaggtata tgtcttctaa      240
208 agctaaatac cggccagaga ccgatagcgc acaagtagag tgatcgaaaag atgaaaagca      300
209 ctttgaaaag agagttaaac agcacgtgaa attgttgaaa gggaagcgtt tatgaccaga      360
210 cttggcccgg ttgatcatcc agcgttctcg ctggtgcact ctgccggtcc aggccagcat      420
211 cagttcgccg cgggggataa aggtttcggg aatgtggctc ctccgggagt gttatagccc      480
212 gttgcgtaat accctgcggt ggactgaggt ccgcgcttct gcaaggatgc tggcgtaatg      540
213 gtcatcaacg acccgtcttg aaacacggac caaggagtcg tcttcgtatg cgagtgttcg      600
214 ggtgtaaaac ccctacgcgt aatgaaagtg aacgcaggtg agagcttcgg cgcattcatc      660
215 accgatcctg atgttctcgg atggatttga gtaagagcat acggggccgg acccgaaaaga      720
216 aggtgaacta tgcctgtata ggggtgaagcc agaggaaact ctggtggagg ctgcgacggg      780
217 ttctgacgtg caaatcgatc gtcaaatatg ggcattgggg cgaaagacta atcgaaacct      840
218 ctagtagctg gtttccgccc aagtttccct caggatagca gtgttgaaact cagttttatg      900
219 aggtaaaagc aatgattagg gactcggggg cgctatttag ccttcatcca ttctcaaaact      960
220 ttaaatatgt aagaagccct tgttacttag ttgaacgtgg gcattcgaat gtatcaacac      1020
221 tagtgggcca tttttggg
222
223 <210> SEQ ID NO: 11
224 <211> LENGTH: 1044
225 <212> TYPE: DNA
226 <213> ORGANISM: Myrothecium
228 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <223> OTHER INFORMATION: 28s rDNA sequence of the strain IMI29040
233 <400> SEQUENCE: 11
235 cagggattgc ctcagtaacg gcgagtgaag cggcaacagc tcaaatttga aatctggccc      60
236 cccggcccga gttgtaattt gcagaggatg cttttggcaa ggtgccttcc gagttccctg      120
237 gaacgggacg ccatagaggg tgagagcccc gtctggtcgg acaccgagcc tctgtaaagc      180
238 tccttcgacg agtcgagtag tttgggaatg ctgctcaaaa tgggaggtat atgtcttcta      240
239 aagctaaata ccggccagag accgatagcg cacaagtaga tgatcgaaa gatgaaaagc      300
240 actttgaaaa gagagttaaa tagcacgtga aattgttgaa agggaagcgt ttatgaccag      360
241 acttggcccc gttgatcatc cagcgttctc gctggtgcac tctgccggtc caggccagca      420
242 tcagttcgtc gcgggggata aaggcttcgg gaatgtagct ctcttcgggg agtggttatag      480
243 ccggtgtgtg aataccctgc ggtggactga ggtccgcgct ctgcaaggat gctggcgtaa      540
244 ttggtcatcac gaccgtcttg aaacacggac caaggagtcg tcttcgtatg cgagtgttcg      600
245 ggtgtaaaac ccctacgcgt aatgaaagtg aacgcaggtg agagcttcgg cgcattcatc      660
246 accgatcctg atgttctcgg atggatttga gtaagagcat acggggccgg acccgaaaaga      720
247 aggtgaacta tgcctgtata ggggtgaagcc agaggaaact ctggtggagg ctgcgacggg      780
248 ttctgacgtg caaatcgatc gtcaaatatg ggcattgggg cgaaagacta atcgaaacct      840
249 ctagtagctg gtttccgccc aagtttccct caggatagca gtgttgaaact cagttttatg      900
250 aggtaaaagc aatgattagg gactcggggg cgctatttag ccttcatcca ttctcaaaact      960
251 ttaaatatgt aagaagccct tgttgcttaa ttgaacgtgg gcattcgaat gtatcaacac      1020

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/525,984

DATE: 02/02/2006
 TIME: 11:39:50

Input Set : A:\VANM260.001APC SEQLIST as filed.txt
 Output Set: N:\CRF4\02022006\J525984.raw

```

252 tagtgggccca tttttggttaa gcag 1044
254 <210> SEQ ID NO: 12
255 <211> LENGTH: 445
256 <212> TYPE: DNA
257 <213> ORGANISM: Myrothecium
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <223> OTHER INFORMATION: ITS sequence of the strain MUCL39210
263 <400> SEQUENCE: 12
265 gcgggaccgc cccggcgccc tcggggcccg gaccagggcg cccgcccggag accccaaact 60
266 ctatgtttta ctgtacatct cctctgagtg acacataaac aataaataaa aacttttaac 120
267 aacggatctc ttggttctgg catcgatgaa gaacgcagcg aaatgcgata agtaatgtga 180
268 attgcagaat tcagtgaatc atcgaatctt tgaacgcaca ttgcgcccgc cagtattctg 240
269 gcgggcatgc ctgttcgagc gtcatttcaa ccctcaggcc cccagtgcct ggcgttgggg 300
270 atcggcacca gggcgtcgcg gcaagcggtc tccccgccgg ccccgaaatc tagtggcggt 360
271 ctgcgtgtag tcctcctctg cgtagtagca caacctcgca gctggaactc ggcggtggcc 420
272 ctgccgttaa acacccact tctga 445
274 <210> SEQ ID NO: 13
275 <211> LENGTH: 459
276 <212> TYPE: DNA
277 <213> ORGANISM: Myrothecium
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <223> OTHER INFORMATION: ITS sequence of the strain MUCL11831
283 <400> SEQUENCE: 13
284 gcgggctcag ccccgcgccc ctgcggggcg cggggaaaca ggcgcccgcc ggagacccaa 60
285 actcaatggt tttcatgcag tattatctga gtggcaaacg caaaaaataa atcaaaactt 120
286 ttaacaacgg atctcttggc tctggcatcg atgaagaacg cagcgaaatg cgataagtaa 180
287 tgtgaattgc agaattcagt gaatcatcga atctttgaac gcacattgcg cccgcgagta 240
288 ttctcgcggg catgcctgtc cgagcgtcat ttcaaccctc agggcccgcc tgcttgagg 300
289 cgcggcgctg gtgttgggga tcggccctaa accgccgtcc cccaaattca gtggcggtct 360
290 cgctgcagcc tcccctgcgt agtagcaaca ctgcgatgcg gagcgcggcg cggccacgcc 420
291 gtaaaacccc cgactttctg aacgttgacc tcggatcag 459
293 <210> SEQ ID NO: 14
294 <211> LENGTH: 423
295 <212> TYPE: DNA
296 <213> ORGANISM: Myrothecium
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <223> OTHER INFORMATION: ITS sequence of the strain CBS449.71
302 <400> SEQUENCE: 14
304 gcgggaccgc cccggcgccc tcggggcccg aaccagggcg ccgcccggag ccccaaaact 60
305 ttatgtcttt agtggtttct tcctctgagt gacacataaa caaataaata aaaactttca 120
306 acaacggatc tcttggttct ggcacatgat aagaacgcag cgaaatgcga taagtaatgt 180
307 gaattgcaga attcagtga tcatcgaatc ttgaacgca cattgcgccc gccagtattc 240
308 tggcgggcat gcctgttcga gcgtcatttc aaccctcagg ccccgagtgc ctggtgttgg 300
309 ggatcgcccc agccttctcg caaggccgcc gggcccgaaa tctagtggcg gtctcgctgt 360
310 agtcctctc tgcgtagtag cacaacctcg cagttggaac gcggcggtgg ccatgccgtt 420
311 aaa 423

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/02/2006
PATENT APPLICATION: US/10/525,984 TIME: 11:39:51

Input Set : A:\VANM260.001APC SEQLIST as filed.txt
Output Set: N:\CRF4\02022006\J525984.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:19; N Pos. 3,12
Seq#:21; N Pos. 12,18
Seq#:22; N Pos. 18

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,17,18,19,20,21,22,28,29,30,31

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/525,984

DATE: 02/02/2006

TIME: 11:39:51

Input Set : A:\VANM260.001APC SEQLIST as filed.txt

Output Set: N:\CRF4\02022006\J525984.raw

L:18 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0